

CLAIMS

What is claimed is:

- 5 1. A composition comprising, a hydraulic cement, fine aggregate, and
honorable aggregate chips.
2. The composition of claim 1, wherein the hydraulic cement
comprises approximately 25 to 35 percent by weight of the composition.
- 10 3. The composition of claim 2, wherein the hydraulic cement
comprises 30 percent by weight of the composition.
4. The composition of claim 1, wherein the hydraulic cement is
15 Portland cement.
5. The composition of claim 4, wherein the fine aggregate comprises
approximately 15 to 25 percent by weight of the composition.
- 20 6. The composition of claim 5, wherein fine aggregate comprises 20
percent by weight of the composition.
7. The composition of claim 1, wherein the fine aggregate is silica.

8. The composition of claim 1, wherein the honorable aggregate chips are uniformly mixed with the base mixture.

5 9. The composition of claim 1, wherein the honorable aggregate chips comprises approximately 40 to 60 percent by weight of the composition.

10 10. The composition of claim 9, wherein the honorable aggregate chips comprises 50 percent by weight of the composition.

11. The composition of claim 1, wherein the honorable aggregate chips are selected from the group of materials consisting of marble, glass, metal, limestone, granite or onyx.

15 12. The composition of claim 1, wherein the honorable aggregate chips are at least No. 0 size chips.

13. The composition of claim 12, wherein the honorable aggregate chips include No. 0, No. 1 and No. 2 size chips.

20 14. The composition of claim 13 wherein the honorable aggregate chips include approximately 40 percent by weight of the composition No. 0 size chips.

15. The composition of claim 13 wherein the honorable aggregate chips include approximately 6 percent by weight of the composition No. 1 size chips.

16. The composition of claim 13 wherein the honorable aggregate chips include approximately 4 percent by weight of the composition No. 2 size chips.

17. The composition of claim 1, wherein the composition comprises about 30 percent by weight hydraulic cement, about 20 percent by weight fine aggregate, and about 50 percent by weight honorable aggregate chips.

18. The composition of claim 1 wherein the honorable aggregate chips include approximately 40 percent by weight of the composition No. 0 size chips, approximately 6 percent by weight of the composition No. 1 size chips, and approximately 4 percent by weight of the composition No. 2 size chips.

19. The composition of claim 1, further comprising at least one element selected from the group of elements consisting of a plasticizer, and a colorant.

20. The composition of claim 1, for use as a dry finish with a wet concrete substrate to harden and create an aesthetic surface for the concrete substrate.

21. A method of producing a surface, comprising the steps of:
- a. placing a concrete substrate of a predetermined area and thickness;
 - b. distributing a finish composition, comprising
5 hydraulic cement, fine aggregate and honable aggregate chips, uniformly over the concrete substrate while the concrete substrate has a predetermined degree of wetness;
 - c. finishing the concrete substrate and finish composition;
 - d. waiting for the concrete substrate and finish
10 composition to cure to thereby yield a cured surface; and
 - e. honing the cured surface.
22. The method of claim 21, wherein the concrete substrate is pumped,
15 placed or otherwise conveyed or poured to or at a predetermined location.
23. The method of claim 22, wherein pouring is accomplished at a slump rate not in excess of 5 inches for a slab on grade.
- 20 24. The method of claim 21, wherein after placement of the concrete substrate, and prior to distribution, the surface is screed and bullfloated/highway straightedged, bleed water is allowed to rise to the surface, moisture loss and

setting is monitored for timing of floating, any standing water is removed, and upon disappearance of water sheen on the surface, the surface is floated open.

25. The method of claim 21, wherein a predetermined amount of dry
5 finish composition is uniformly distributed across the surface.

26. The method of claim 25, wherein distribution is implemented via
an automatic spreader.

10 27. The method of claim 21, wherein, after distribution, the surface is
permitted to absorb a sufficient amount of moisture, the surface is then floated to
incorporate the dry finish composition into the surface.

28. The method of claim 27, wherein, after the last floating, a
15 predetermined amount, between approximately one half to one third the amount of
dry finish initially distributed, of dry finish is uniformly distributed across the
surface, and upon absorption of sufficient moisture, the surface is floated again.
A third application of dry finish may optionally be applied.

20 29. The method of claim 21, wherein one or more mechanical
trowellings are conducted after the surface has lost its sheen and can support the
weight of a finishing machine and its operator.

30. The method of claim 21, wherein the step of honing the surface is accomplished with a planetary grinder.

31. A monolithic, hard, aesthetic architectural surface comprising a
5 standard concrete substrate of a predetermined area and thickness and a top
surface, integral with the concrete substrate, comprising a hydraulic cement, fine
aggregate, and honable aggregate chips.

32. The surface of claim 31, wherein the hydraulic cement is provided
10 in an amount approximately 30 percent by weight, wherein the fine aggregate is
provided in amount approximately 20 percent by weight, and wherein the honable
aggregate chips are provided in an amount approximately 50 percent by weight.

33. The surface of claim 31 wherein the surface further comprises at
15 least one element selected from the group of elements consisting of a plasticizer,
and a colorant.

34. The surface of claim 31, wherein the honable aggregate chips are
selected from the group of aggregates consisting of marble, glass, metal,
20 limestone, granite and onyx.

35. The surface of claim 31, wherein the honable aggregate chips are at
least No. 0 Size.

36. The surface of claim 31, wherein the surface is a floor.
37. The surface of claim 31, wherein the surface is a table top.